## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/29007

A. CLASSIFICATION OF SUBJECT MATTER				
IPC(7) : C12N 5/00, 5/02				
According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED				
Minimum documentation searched (classification system followed by classification symbols)  U.S.: 435/375				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet				
C. DOCUMENTS CONSIDERED TO BE RELEVANT	Relevant to claim No.			
Citation of document, with indication, where appropriate, of the relevant passages	1, 8-10			
X US 5,912,234 A (Ruoslahti et al.) 15 June 1999, whole document				
·	12-16			
Y Holvoet S, et al. The inhibition of MAPK pathway is correclated with down-regulation of MMP-9 secretion induced by TNF alpha in human keratinocytes, 2003, Exp. Cell Res. vol 290, pages 108-119, particularly Abstract, figures 2 and 6	12-14			
Y Rotsch C et al. Drug-Induced changes of cytoskeletal structure and mechanics in fibroblasts: an atomic force microscopy study, January 2000, Biophysical Journal, vol 78, pages 520-535, whole document	15-16			
A Awad et al., In vitro characterization of mesenchymal stem cell-seeded collagen scaffolds fpr tendon repairs: effects of initial seeding density on contraction kinetics, 2000, J. Biomed.  Mater. Res. vol 51, pages 233-240	1-18			
A US 4,940,8 3 A (Vandenburgh) 10 July 1990	1-18			
Further documents are listed in the continuation of Box C.  See patent family annex.  See patent family annex.	mational filing date or priority			
Special categories of cited documents:  "T" later document published after the interdate and not in conflict with the applic "A" document defining the general state of the art which is not considered to be of principle or theory underlying the inve	ation but cited to understand the			
particular relevance  "X"  document of particular relevance; the considered novel or cannot be considered novel or cannot be considered when the document is taken alone	claimed invention cannot be tred to involve an inventive step			
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  document of particular relevance; the considered to involve an inventive ste combined with one or more other such being obvious to a person skilled in th	p when the document is h documents, such combination			
"O" document reterring to an oral discressive, use, exhibition of California and				
"P" document published prior to the international filing date but later than the "&" document member of the same patent priority date claimed				
Date of the actual completion of the international search  Date of mailing of the international search  Date of mailing of the international search  Date of mailing of the international search				
19 March 2005 (19.03.2005)  Name and mailing address of the ISA/US  Authorized officer	7, 1, 00%			
Mail Stop PCT, Atm: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450  Facsimile No. (703) 305-3230  Patrick S. Riegins Telephone No. (501) 272-1600	John John			

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INTERNATIONAL SEARCH REPORT	International application No. PCT/US04/29007	
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Continuation of B. FIELDS SEARCHED Item 3: BRS, PubMed/Medline search terms: actin, microtubule, tissue engineering, extracellular matrix, cytos	keletontnf, il l	
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